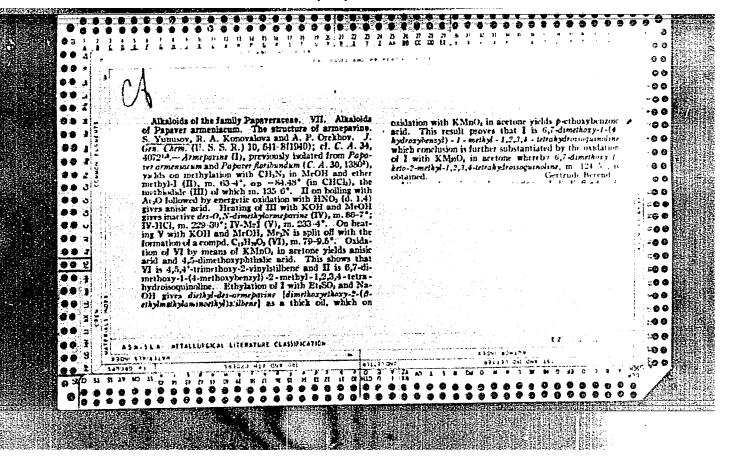


- 1. KONOVALOVA, P. A., YUNUSOV, S., OREKHOV, A.P.
- 2. USER (600)

"On the Alkaloids of Plants of the Family Papaveraceae. Vi. The Alkaloids of the Glacium Gimbrilliserum", Zhur. Obshch. Khim, 9, No. 21, 1939. Alkaloid Dept. All-Union Seci.-Res. Chemico-Pharmaceitical Inst. Imeni S. Ordzhonikidze. Received 4 June 1952.

9. Report U- 1626, 11 Jan 1952

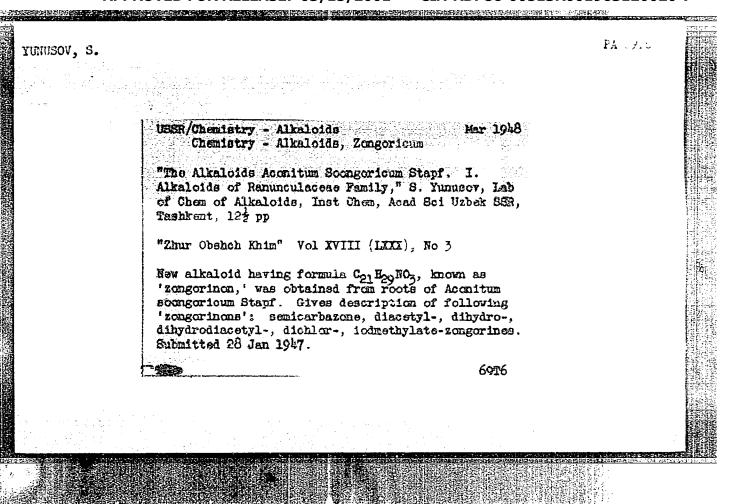


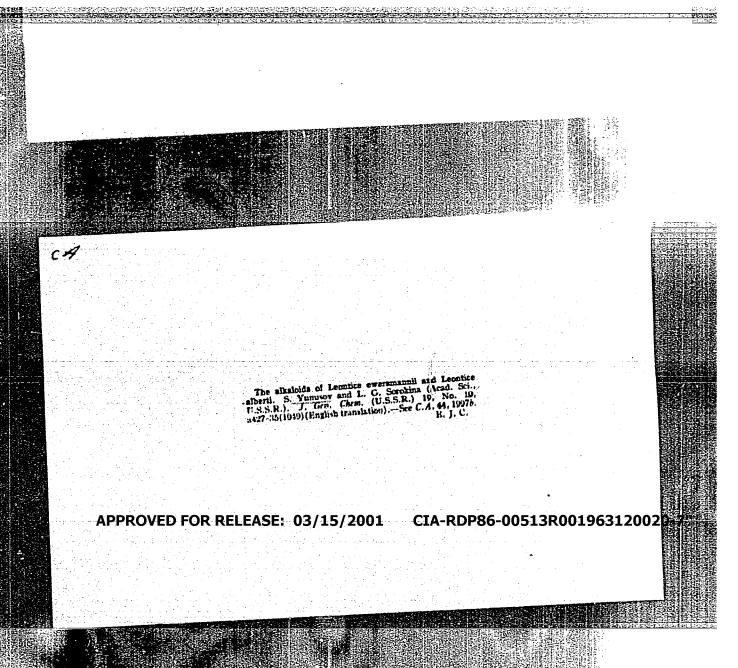
Yunusov, S. - "On the dynamics of accumulation, the role and the formation of alkaloids in plants", Izvestiya Akad. nauk UzSSR, 1948, No. 4, p. 11-27, (Resume in Uzbek), Bibliog: 67 items.

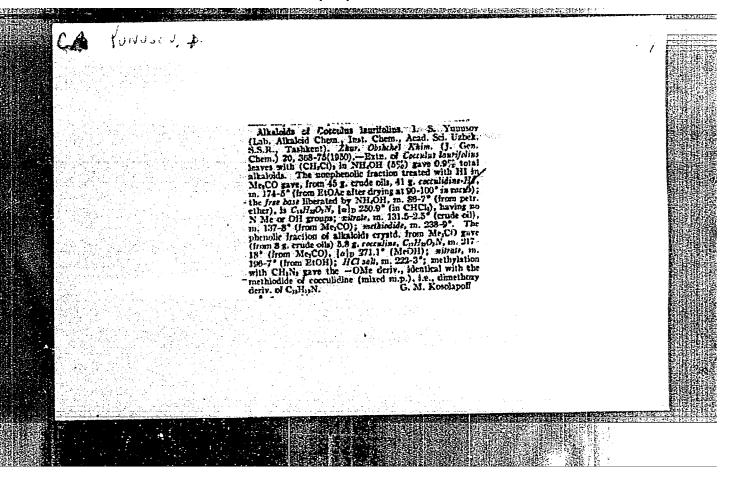
SO: U-3042, 11 March 1953, (letopis 'nykh Statey, No. 10, 1949).

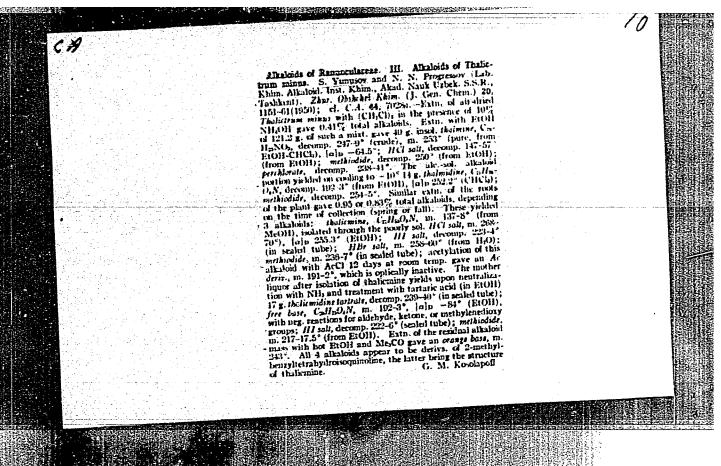
YUTUSOV, S. Yu. "On determining the structure of alkoloids of the aporphine group," Doklady Akad nauk UzSSR, No. 8, 1948, p. 12-16 - Resume in Uzbek language - Biblion:

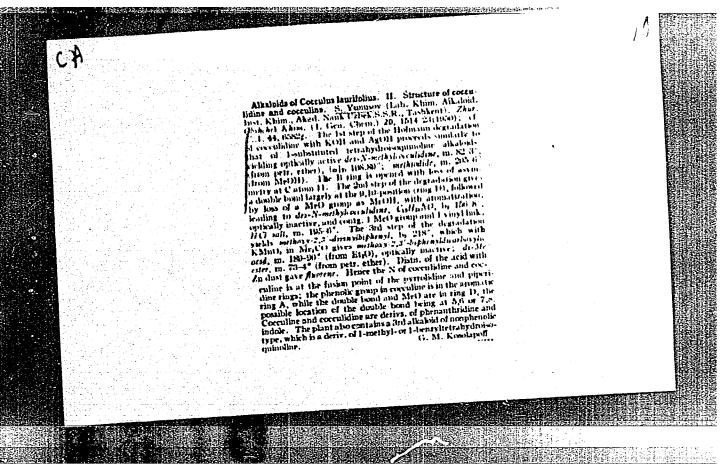
SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

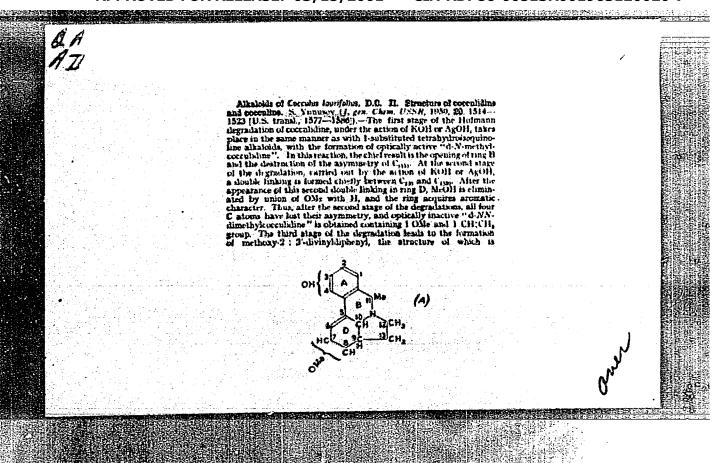








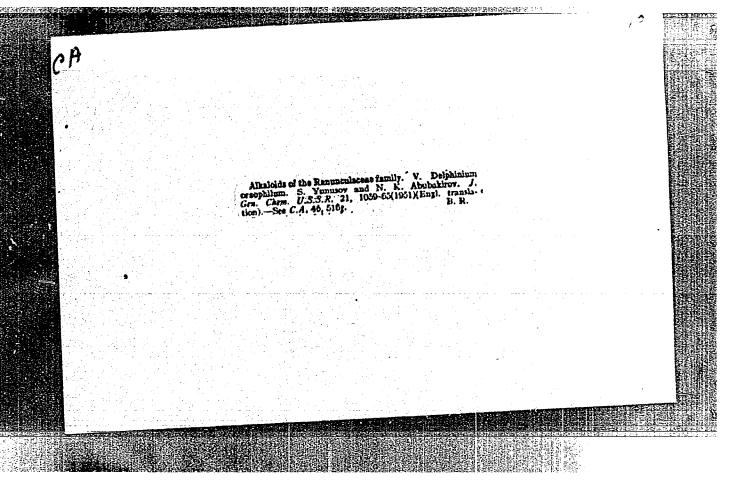


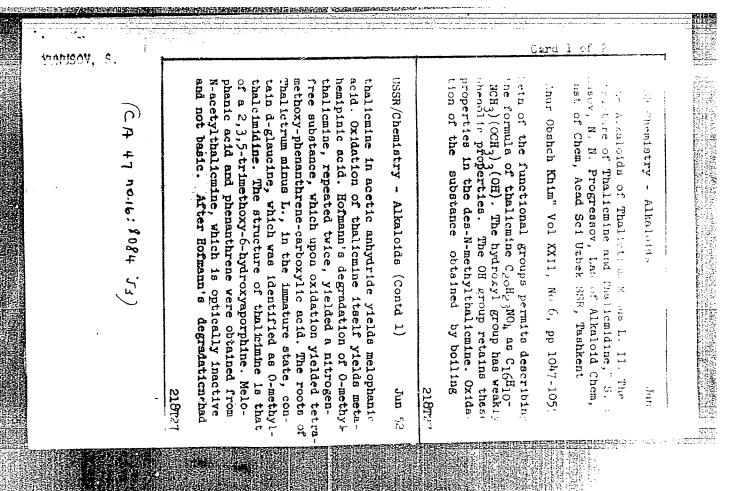


YUMUSOV, S.

"The alkoloids of Delphinium semibarbatum. IV. Alkaloids of the Ramunoulacese order." by S. Yumusov and N. K. Abubakirov. (p.174)

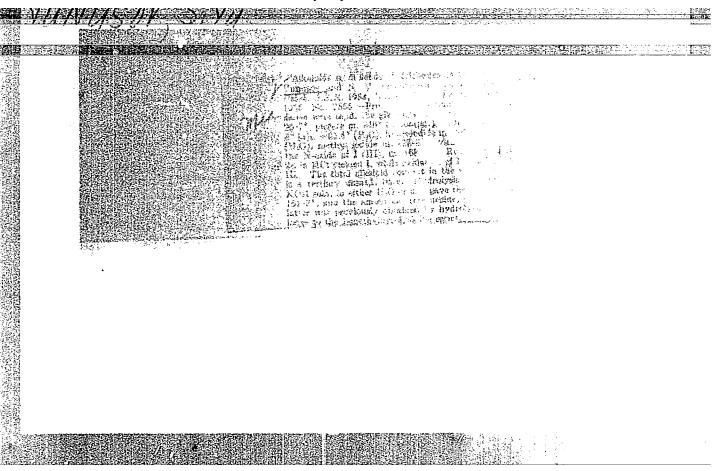
S0: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Volume 21, No. 1



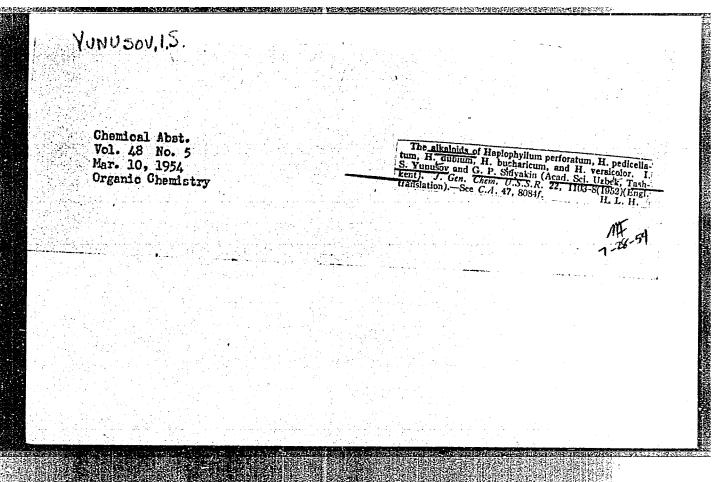


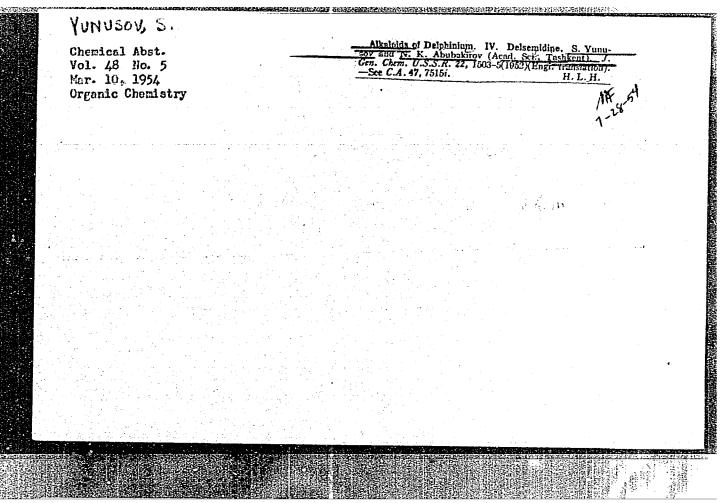
YUNUSOV	, 5. Card 2	of 2
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	been carried out twice, thalicmine yield trimethoxy methylene dioxy-vinylphenanthrene. Thalicmine is a deriv of pentahydroxyaporphine. Apparently its structure corresponds to 3,4,7-trimethoxy-5,6-methylenedioxy aporphine.	The Control of the State of the
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H. H		ids to form $C_{17}H_{17}NO_{5}$, ron of CH31 it forms the (=N-CH.) (OCH3). It obv. The alkaloids are cound seeds. Investigated above plants.	. Alkaloids	stems of Haplophyllum ir.: ocimmianine, a ci ithe new alkaloid haple, mp 155-156°. Obtaine, mp 155-156°. Obtaine operine (mp 129-131°) C17H25NO6 (mp 159-160°)	Khim" Vol XXII, No 6, pp l	H., "phy in perf rat Stun, H. bucharicum, H. P. Sulyakin, Lab of Alko Acad Sci Uzbek SSR, Tashk	-	
	218128 218128	p 136-J iromeri iously tained the al		the leaves, perforatum perforatum yst base with operine d the hydro- and hexahy Haploperine 218728	1058 -10 61	H. safe of d. Che		



YUNUSOV, S. Far. 10, 1954 The alkaloida of Thalicirum minus. II. The atructure of thalicinguns and malicinine. S. Yunnsov and N. N. Pro-gressov (Appl. 1995-1101(1052)/Engl. J. Grs. Chem. C.A. 47, 8034. Organic Chamistry APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7"



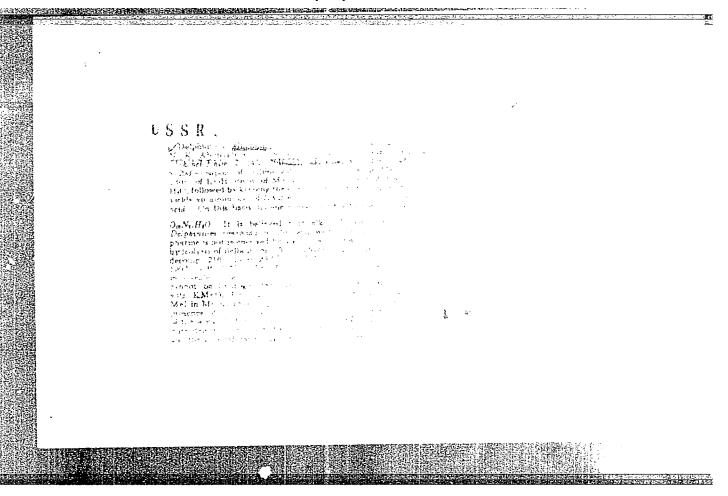


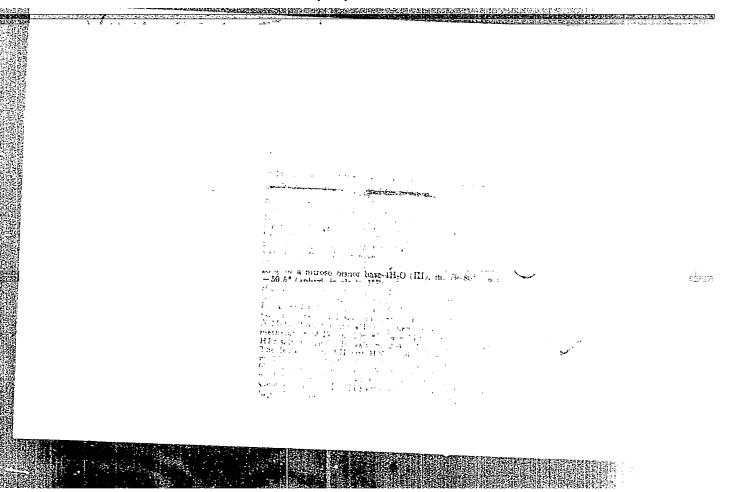
YUNUSOV, S.YU.		
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	Table of Work	Here to be to be a second of the
Yunusov, S.Yu	"Investigation in the Field of the Chemistry of Alkaloids"	Presidium, Academy of Sci- ences Uzbek SSR (6)
있는데 1906년 1일 전에 대한 보고 있다. 1906년 1월 1일 1일 1일 1일 1일 1일 1일 1907년 1일		
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MUNUSOV S. MU. Cond ASSUBARIAGO II. R.

Delbine and Delphatine. V. Study of Delphinium Alkeloids, Face 1403, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1686-1686.

Laboratory of the Chemistry of Alkaloids, Inst of Chemistry, Acad Sci Uz SER





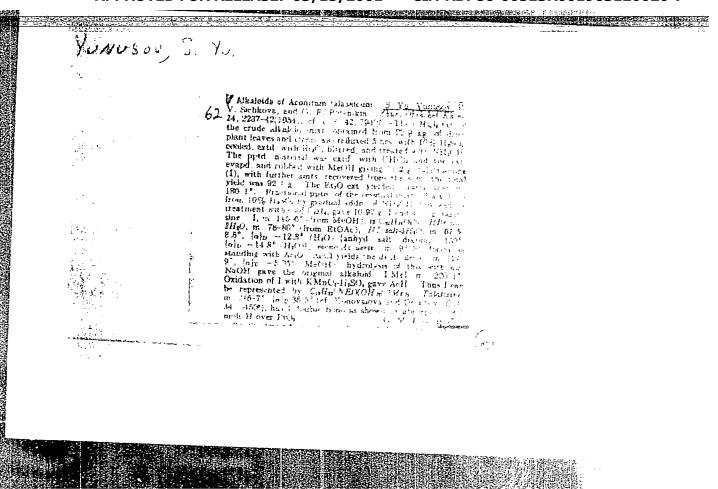
Investigation of alkaloids from Accurant analysis of S. Yu. Younsey. P. Y. Selving and S. J. Longdon.

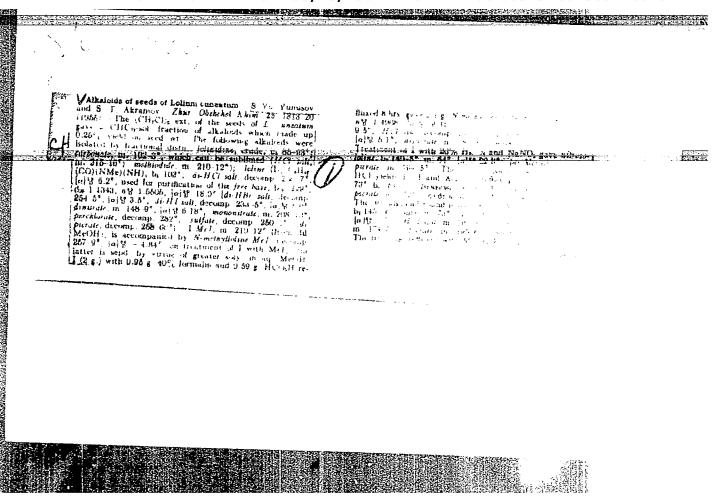
B. Yu. Younsey. P. Y. Selving and S. J. Longdon.

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—The roots of this plant are used in certical Assass a made anext. If he had a ground pair centralists 192 and the roots of the plant are used the alkaloids at studence of the selving of alkaloids. To tolate the alkaloids at the horse light of the selving of the selv

TOTUSOV; S. YU. USSR/Chemistry Card 1/1 Authors : Abubakirov, N. K.; and Yunusov, C. Yu. Title : Investigation of Delphinium alkaldids. Inc of delphisine. Periodical : Zhur. Ob. Khim. 84, Ed. 4, 737 - 737, April Abstract : The author carried out the transforms tong to nitroso compound into the nor-basis, Alk lands indide produces a compound identification of the compound presence of the N-m hyl group in accepte the the of conversions. Fifteen references; ... Japanese, English since 1936. Institution : Institute of Theriotic at the term, and the Submitted : December 11, 1987





YUNUSOV, S.Yu., akademik; YULLMASHEV, P.; PIETHANOVA, N.V.

Study on alkaloids from the absveground pertien of Vinca erecta

Rgt. et Schmalh. Dokl. AH Uz. SSR no.7:13-15 '56.

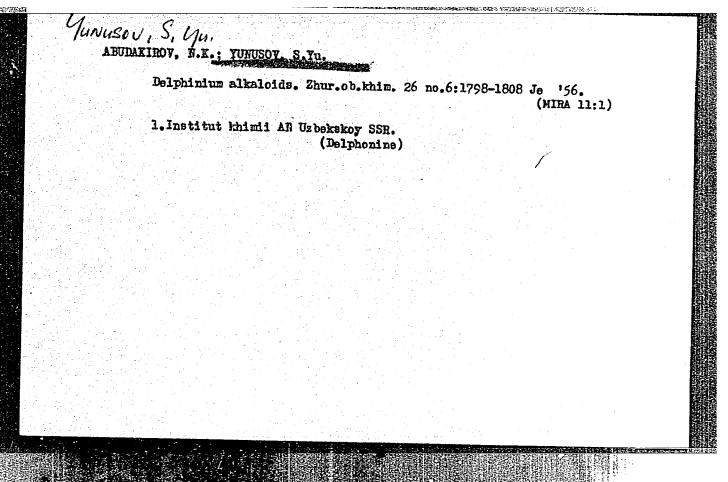
(MIRA 12:6)

1.Akademiya nauk UzSSR (for Yunusov).

(Alkaloids) (Vinca)

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경기에 보고 있는 경기에 있는 것으로 되었다. 그런	
In the article, "Reserpinin From Vices erects," S. Yu. Yunusov. Acade-	
mician of the Academy of Sciences Latek Sub and Published to the	
Institute of Chemistry, Academy of Sciences Uzbek SSR, describe the method	
of isolation of the alkaloid reserpinin from Vinca erecta, a plant of the	
Apocynaceae family closely related to the plant Rauwolfia. A total of 2.6	
percent of alkaloids are extracted with ether from the roots of the plant.	
These include the alkaloids vinkaninC19H22ON2, vinkadininC20H24O3N2, and reserpininC23H26O4N2; reserpinin is saponified with an alkali to	
form reserpinic acid. The acid and its nitrate are then methylated with	
diasomethane to obtain the pure alkaloid. (Doklady Akademii Nauk Uzbek-	
skoy SSR, No 9, 1956, pp 23-25)	
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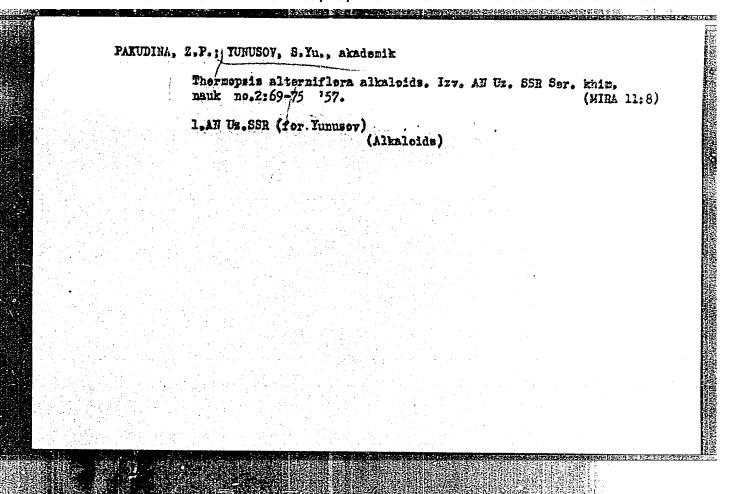
Alkaloids	loids from Linaria popovii Kuprian. Dokl.AN Uz.SSR no.11:25-2 (MIRA 13:6)					:25 - 27 13:6)	
1. Institu	it khimii Al (Alkaloids)	n uzsse.	2. Akp	demiya naul igwert)	U2SSR	(for Yur	usov).



KARIMOV, U.I.; YUKUSOV S Yukumakadenik, otvetstvennyy redsktor;
LYUBECHARSKAIA, M.I., redsktor izdatel'stvs; SHEPEL'KOV, A.T.,
tekknicheskiy redsktor

[An unknown work by al-Razi, "The Book of the Secret of Secrets."]
Heisvestnoe sochinenie er-Razi "Knigs tsiny tsin." Tashkent, Isd-vo
Akad.nauk Uzbekskoi SSR, 1957. 190 p. (MIRA 10:11)

1. Akademiya nsuk UzSSR (for Yunusov)
(Muhammad Ibn Zakariya, Abu Bakr, al-Razi, 10th cent.)
(Alchemy)



YUNUSOV, S.Yu., akademik; PIEKHABOVA, N.V.

Study of Trichodesema incamum alkaloids. Dokl.AM Uz, SSR no.
4:31-33 '57. (MIRA 11:5)

1. Institut khimii restitel'nykh veshchestv AM UzSSR.
2. AM UzSSR.
(Alkaloids)

TUNUSOV, S.Yu., akademik; PLEKHANOVA, N.V.

Incanine structure. Dokl. AN Uz. SSR no.5:13-16 '57. (MIRA 11:5)

1.Institut khimii rastitel'nykh veshchestv i khlopka AN UzSSR.

2. AN UzSSR (for Yunusov).

(Incanine)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

1	Institut	khimii rastite	Dokl. AN Uz.		(HIRA 11:5)	
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YUNUSOV, S.Yu., akademik; AKRAMOV, S.T.; SIDYAKIN, G.P.

Study of alkaloids extracted from pabularia and hypecoum trilobium, Jokl. AN-Uz, SSR no.7:23-25 '57. (MIRA 11:5)

1.Institut khimii rastitel'nogo syr'ya i khlopka AH UzSSR.

2.AN UzSSR (for Yunusov). (Alkaloids)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

M-7Essential Oil-USSR / Cultivated Plants. Medicinal. Bearing. Toxins.

: Ref Zhur - Biologiya, No 2, 1959, No. 6478 Abs Jour

: Yunusov, S. Yu.; Plekhanova, N. V. Author : Academy of Science, UzSSR

Inst : Study of Alkaloids in Sophora Griffithii Title

Stock

: Dokl. AN UZSSR, 1957, No 8, 17-19 Orig Pub

: Alkaloids derived from the leaves and seeds Abstract The content of S. griffithii were isolated. of alkaloids in leaves (~4.65%) was approximately the same during the fruit bearing stage and after the fall of fruits; 1.6% of pachycarpine and 0.57% of cytisine were obtained by separating the alkaloids. 5.93% of the alkaloids were isolated from

Card 1/2

159

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

-USSR / Cultivated Plants. Medicinal. Essential Oil- M-7
Bearing. Toxins.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6478

seeds. 4.12% of cytisine were obtained by separating these alkaloids. The method of extraction of the elkaloids, their separation and identification are described. -- Λ . Λ . Zaytseva

Card 2/2

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

Study of the alkaloids extracted from Vinca erecta Rgl. et Schmalh.
Zhur.ob.khim. 27 no.7:2015-2018 Jl '57. (MIRA 10:10)

1.Institut khimii rastitel'nykh veshchestv i khlopka AN Uzbekskoy SSR.

(Alkaloids) (Apocynaceae)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

79-12-36/43 Yunusov, S. Yu. Abduazimov, Kh. A. AUTHORS:

An Investigation of the Four Types of Alkaloids From Ungernia TITLE:

(Issledovaniye alkaloidov chetyrekh vidov Ungernia).

Zhurnal Obshchey Khimii 1957, Vol. 27, Nr 12, pp. 3357-3361 PERIODICAL:

(USSR)

The alkaloids of the plant species Ungernia were subject to ABSTRACT: few chemical and pharmacological investigations. Only the

tazettine was separated from the species "Ungernia Severtzovii" and the "likorine" from "Ungernia tadshicorum" . On the in-

vestigation of the first species a production rate of 0,7 - 0,29 % of alkaloid from the bulbs was established. It was succeeded, to isolate three crystalline radicals from the alkaloid mixture of the bulbs. One of these forms a series of crystalline salts. A free alkaloid was seperated from the purified chlorine hydrate. An empiric formula C19H23NO5 of

this alkaloid was computed on the basis of an elementary analysis of the radical itself as well as of its nitrate. It was called ungerine. After the removal of the ungerine from the remaining alkaloid mixture the already mentioned tazettine

was separated on the basis of their different solubility in

Card 1/2 acetone and alcohol. The third alkaloid from "Ungernia

CIA-RDP86-00513R001963120020-7"

APPROVED FOR RELEASE: 03/15/2001

An Investigation of the Four Types of Alkaloids From Ungernia 79-12-36/43

Severtzovii" appeared to be new and was called ungeridine. It has the experimental formula C20H25NO4 and its structure was determined more exactly (see formula!). It appears, that two new alkaloids were obtained apart from tazettine and likorine from "Ungernia Severtzovii". From the bulbs of "Ungernia tadshicorum" likorine and ungeridine were isolated, from the bulbs of "Ungernia Victoris" galamantine and likorine. The bulbs of "Ungernia ferganica" contain tazettine and likorine. These alkaloids were all four eamined pharmacologically by Mushkovskiy M. D. There are 8 references, 8 of which are Slavic.

Institute of Vegetable Ray Materials and

Cotton Chemistry (Institut khimii i rastitel'nogo syr'ya i

khlopka).

SUBMITTED:

ASSOCIATION:

August 21, 1956

AVAILABLE:

Library of Congress

1. Alkaloids - Sources

Card 2/2

YESKAIROV, N.; SIDYANIK, G.P.; YUNUSOV, S.Tu., akademik.

Alkaloids of Haplophyllum foliosum Vved.; foliosidine. Dokl. AH Us. SER no. 5:23-26 58. (HIRA 11:8)

1. Institut khimii rastitel'nykh veshchesty AN UzSSR. (Bns) (Alkaloids)

SIDYAKIN, G.P.; YESKAIROV, M.; YUKUSOV, S.Yu., akademik

Alkaloids of Haplophyllum folisosum Vved. Structure of dubinidine.
Dokl. AH Uz. SSR no.8:27-29 '58. (MIRA 11:9)

1.Institut khimii rastitel'nykh veshchestv AH UzSSR. 2.AH UzSSR (for Yunusov). (Dubinidine)

SIDTAKIN, G.P.: TESKAIROV, M.: TUNUSOV, S.Yu., akadenik

Alkaloids of Haplophyllum foliosum Vved. Structure of dubinidine.

Dokl.AN Uz.SSR no.9:17-18 '58. (MIRA 11:12)

1. AN UzSSR (for Yunusov). 2. Institut khimii rastitel'nykh

veshchestv AN UzSSR.

(Dubinidine)

TUNUSOV, S. Yu., akademik; SHAKIROV, T.T.; PLEKHANOVA, N.V.

Alkaloids from Convolvulus subhirsutus Rgl. and Schmae of the family Convolvulaceas. Dok, AM Uz.SSR no.10:17-20 '58.

(MIRA 11:12)

1. Institut khimii rastitel'nykh veshchestv AM UzSSR, 2. Chlenkorrespondent AM SSSR i akademik AM UzSSR (for Yunusov).

(Alkaloids) (Bindweed)

YURUSOV, S.Yu., akadenik; PLEEHARDVA, N.V.; SHAKIHOV, T.

Investigation of several species of Bremurus. Dokl.AN Uz.SSR no.11:25-27 '58. (Miha 11:12)

1. Chlen-korrespondent AN SSSR,AN UzSSR (for Yunusov). 2. Institut khimii rastitel'nykh veshchestv AN UzSSR. (Lilies) (Alkaloids)

Alkaloids from Rinders cyclodonts Bgs. from the Boraginaceae family. Dokl.AN Uz.SSR no.12:27-30 '58. (MIRA 12:1)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. AN UzSSR 1 chlen-korrespondent AN SSSR (for Tunnsoy).

(Asia, Central-Borage) (Alkaloids)

and and a second and a second	Study on alkaloids from the seeds of Lolium cuneatum (Neveki). Dokl.AN Uz.SSR no.3:36-39 159. (HIRA 12:7)								
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		(Alkaloid	s)						
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SHAKIROV, T.; SIDTAKIH, G.P.; YUMUSOV, S.Tu., akademik

Alkaloids from seeds of Haplophyllum perforatum. Dokl.AN Us.SSR
mo.6:28-30 *59.

1. Institut khimii rastital mykh veshchestv AN UsSSR. 2. AN
UsSSR (for Yumusov).

(Alkaloids)

ISNAILOV, Z.F.; MAYEKH, S.Kh.; YUMUSOV, S.Yu., akademik

Alkaloids from the roots of Thalictrum simplex L. Dokl. AM Uz.
SSR no.7:32-34 '59. (MIRA 12:10)

1.Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. AM
UzSSR (for Yunusov).
(Alkaloids) (Meadow rue)

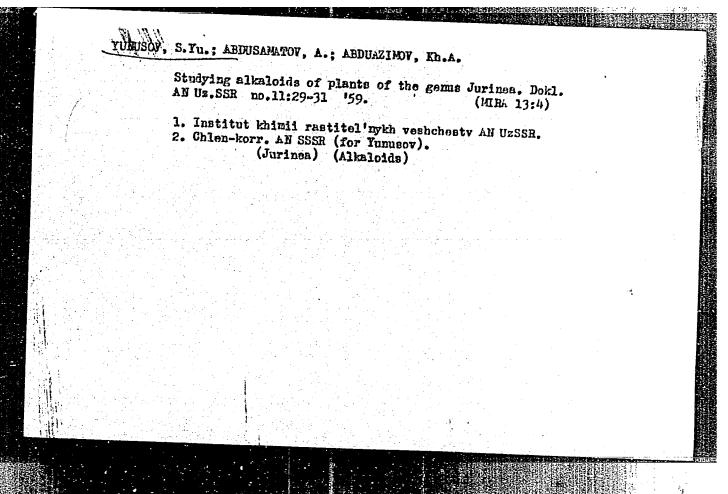
SIDTAKIN, G.P.; BESSONOVA, I.A.; YUBUSOV, S.Yu.

Alkaloids of seeds of Haplophyllum perforatum: Perforin. Dokl.
AM Us.SSR no.10:33-35 '59 (MIRA 13:3)

1. Institut khimii rastitel'nykh veshchestv AM UzSSR. 2. Chlenkorrespondent AM SSSR (for Tumusov).

(Alkaloids)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7



"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

AUTHORS: Yunusov, S. Yu. and Plekhanova, N. V. SOV/79-29-2-66/71

TITLE: Alkaloids of the Plant Trichodesma Incanum (Alkaloidy Trichodesma

incanum)

Structure of Incanine and Trichodesmine (Stroyeniye inkanina i

trikhodesmina)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 677-684 (USSR)

ABSTRACT: Men'shikov, G. P. and Rubinshteyn, M. M. (Ref 1) separated the alkaloid trichodesmine (0.075 %) from the subterranean parts of

the above plant. By lengthy extraction with ether and chloroform the authors obtained from its seeds various mixtures consisting of bases (Ref 5). On separating the alkaloid mixture (from ripe seeds) four crystalline bases were separated by making use of their different solubility in ether, benzene and acetone. The first alkaloid was unknown and was given the name of "incanine" (I); the second was the N-exide form of incanine; the third was found to be trichodes-

the N-oxide form of incanine; the third was found to be trichodesmine (II), and the fourth was the N-oxide form of trichodesmine. Both the quantitative and qualitative composition of the alkaloids in the seeds vary markedly depending on the degree of ripeness, on

the place of growth, and as far as the subterranean parts are concem-1/3 ed. on the plant developing stage (Table). Thus the following new

Card 1/3

克莱西西西西西北部(南京西州州西部南部河南京)

Alkaloids of the Plant Trichodesma Incanum, Structure of Incanine and Trichodesma Tricho-

alkaloids were separated from the seeds and the upper part of the plant Trichodesma incanum (Bge)DC: incanine (C18H27O5N), the N-oxide of incanine, trichodesmine (C18H27O6N), and the N-oxide of trichodesmine. Depending on the type of saponification of incanine, new geometrical acids are formed: incanine acid and isoincanine acid from the composition $C_{10}H_{16}O_4$ (V). The conversion of the former into the latter and vice versa was put into practice. The reduction of the methyl esters of both acids with LiAlH gave trioxy compounds having the composition C10H22G3 (III). Compounds (V) are y-lactone of 2-oxy-3,5-dimethylhexane-2,4-dicarbonic acid (IV). Incanine (I) has the structure of the cyclic diester of retronecine and of 2 oxy--3,5-dimethylhexane-2,4-dicarbonic acid. The structure of trichodesmine acid (VII), which is a 7-lactonic acid of 2,3-dioxy-3,5-dimethylhexane-2,4-dicarbonic acid (VI), was determined. Trichodesmine is a cyclic diester of retronecine and of 2,3-dioxy-3,5-dimenthylhexane-2,4-dicarbonic acid (II). There are 1 table and 10 references, 8 of which are Soviet.

Card 2/3

507/79-29-2-66/71

Alkaloids of the Plant Trichodesma Incanum. Structure of Incanine and Trichodesmine

meamine

ASSOCIATION: Institut khimii rastitel nykh veshchestv Akademii nauk Uzbekskoy

SSR (Institute for the Chemistry of Vegetable Matter of the Academy

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of Sciences, Uzbekskaya SSR)

SUBMITTED: January 3, 1958

Card 3/3

5(3) AUTHORS:

Tunusov, S. Yu., Abduazimov, Kh. A. SOV/79-29-5-67/75

TITLE:

Investigation of the Alkaloids of Ungernia Severtzovii (Issledovaniya alkaloidov Ungernia Severtzovii).

Structure of Ungerine" (Stroyeniye ungerine)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1724-1728

(USSR)

ABSTRACT:

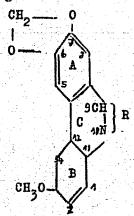
On distilling "Ungerine" with zinc dust the authors obtained phenanthridine, and in the oxidation with potassium permanganate they obtained hydrastic acid. In the Hofmann decomposition a second double bond is formed in the tetrahydro benzene ring B. and a third by cleaving the methoxyl group as methyl alcohol; the ring is thus aromatized. This was established by the fact that benzoic acid was obtained in the oxidation of dee-N-methyl "Ungerine". "Ungerine" is a derivative of phenanthridine, in which the methylene dioxy group is in position 6 -7. The double bond lies most probably between the earbon atoms 1 - 2, the methoxyl group in position 3.

Card 1/2

Investigation of the Alkaloids of Ungernia Severtzovii. Structure of "Ungerine"

January 6, 1958

507/79-29-5-67/75



There are 6 references, 2 of which are Soviet.

ASSOCIATION:

Institut khimii rastitel'nykh veshchestv Akademii nauk Uzbekskoy SSR (Institute of the Chemistry of Vegetable Substances of the Academy of Sciences, Uzbekskaya SSR)

SUBMITTED:

Card 2/2

77414 5.3900 sov/79-30-1-75/78

Sidyakin, G. P., Yeskairov, M., Yunusov, S. Yu. AUTHORS:

Alkaloids of the Haplophyllum Foliosum Vved. TITLE:

Structure of Dubinidine

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 338-PERIODICAL:

345 (USSR)

This is a continuation of the investigation of the ABSTRACT:

genus Haplophyllum A. Juss. (family Rutaceae) (Yunusov, S. Yu., Sidyakin, G. P., Zhur. Obshchey Khim., 22, 1055 (1952); 25, 2009 (1955); Doklady Akad. Nauk UzSSR, 12, 15 (1950)). The authors studied the alkaloids of the species Haplophyllum foliosum Vved. (from its stem, leaves, and green seeds). Four alkaloids were isolated: dubinidine (which was first obtained from Haplophyllum dubium

Eng. Kor. -- see the reference cited above), skimmianine, and two new alkaloids called by the authors "foliosine" (foliozin) (Doklady Akad. Nauk

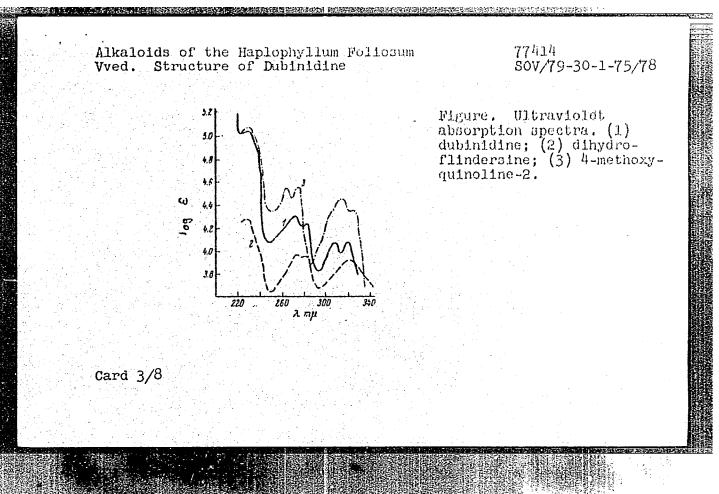
Card 1/8

Alkaloids of the Haplophyllum Foliosum Vved. Structure of Dubinidine

77414 SOV/79-30-1-75/78

UzSSR, 2, 21 (1957)) and "foliosidine "(foliozidin) (ibid., 5, 23 (1958)). Dubinidine was precipitated from aqueous solution of the alkaloids (this solution was obtained by treating the chloroform extracts of H. foliosum with sulfuric acid) with gaseous NH₃. The precipitate was dissolved in acetone and converted into the hydrochloride (mp 195-196°, [Q] $_{\rm D}^{18}$ (-53.92°)) Pure dubinidine (mp 132-133°, [Q] $_{\rm D}^{26.5}$ (-62.95°)) was obtained by addition of concentrated NH₄ OH to aqueous suspension of its hydrochloride. Its ultraviolet spectrum is shown in the figure below, along with spectrum of dihydroflindersine (which has a pyranoquinoline structure).

Card 2/8



Alkaloids of the Haplophyllum Foliosum Vved. Structure of Dubinidine

77414 SOV/79-30-1-75/78

Decarboxylation, iodomethylation, oxidation (with KMnO4, chromic, and periodic acids) etc., have

proven the structure of dubinidine to be identical with (I) in the figure below, i.e., with 2,2-dimethyl-3,4-dioxy-5-methoxy-Q, \(\begin{align*} \ext{-dihydropyranoquinoline} \ext{.} \ext{-dihydropyranoquinoline} \ext{-dihydropyranoquinoline

card 4/8

Alkaloids of the Haplophyllum Foliosum Vved. Structure of Dubinidine

77414 SOV/79-30-1-75/78

The following derivatives of dubinidine were prepared and investigated: hydrobromide(mp 197-1980); hydroiodide (mp 161-162°, $[a]_{D}^{18}$ (-47.32°)); nitrate (mp 176-177°, [a] 22 (-52.39°)); methiodide mp 153-154°) which, upon addition of alcoholic alkali, gave isodubinidine, compound (II) in the figure above (mp 214-215°, $\left[\alpha\right]_{D}^{25}$ (+21.05°)); diacetyldubinidine (mp $108-109^{\circ}$, [a] $\frac{19}{D}$ (-47.70°)). Oxidation with KMnO_{li} led to an aldehyde and then to the optically inactive dictamninic acid (III in the figure above). Skimmianine was separated from the other two alkaloids (the solid mixture was obtained from the chloroform extracts of the solution which was left after precipitation of dubinidine by triturating the mixture in acetone, which dissolves foliosine and foliosidine). The mixture of the two latter compounds was purified by subsequent addition of 10%

Card 5/8

Alkaloids of the Haplophyllum Foliosum Vved. Structure of Dubinidine

77414 80V/79-30-1-75/78

HCl and ammonia and extraction with chloroform (followed by distillation of the latter). The residue was dissolved in methanol and acidified with alcoholic HCl. The optically inactive foliosine hydrochloride (mp 253-254°) fell out after addition of threefold amount of acetone to the cooled solution and was converted to foliosine by addition of 25% NH_hOH (mp 188-189°). The following foliosine derivatives were prepared: hydrobromide (mp 249-250° (decomp.)); hydroiodide (mp 225-226° (decomp.)); nitrate (mp 170-171.5° (decomp.)); methiodide (mp 210-211°); and perchlorate (mp 229-231° (decomp.)). Its formula was found to be: C₁₅H₁₀O(NCH₃) (CH₂O₂). The alkaloid residue isolated from the acetone solution, which was left after precipitation of foliosine, contained mainly folisidine, C₁TH₂O₅N, mp 141-142° and [Q] ²⁵(+41.62°). Its more detailed formula was found to be C₁₅H₁₅O₂(NCH₃)(OCH₃)(OH₃).

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Alkaloids of the Haplophyllum Foliosum Structure of Dubinidine

77414 sov/79-30-1-75/78

The ultraviolet spectrum (in alcohol) has the following maxima: λ 234 (log \mathcal{E} , 4.94); 252 (log \mathcal{E} , 4.92); 324 (log \mathcal{E} , 3.98); 234 m μ (log \mathcal{E} , 3.84) Abstracter's Note: Two maxima λ max 234 are

given in the article. The following derivatives: were prepared: hydrobromide (mp 167-168°); hydrochloride (mp 162-164°); foliosidine picrate (mp 182-183°); and diacetylfoliosidine (mp 129-130°), $[a]_{D}^{18}$ (+14.95°)). There is 1 figure; and 14 ref-

erences, 7 Soviet, 5 German, 1 U.K., and 1 U.S. The U.S. and U.K. references are: G. Sidney, A. F. Smith, E. C. Horning, J. Am. Chem. Soc. 79, 2239 (1957); R. F. C. Brown, J. J. Hoobs, L. K. Huges, E. Ritchie,

Austral. J. Chem., 7, 4, 348 (1954).

ASSOCIATION: Card 7/8

Institute of Chemistry of Plant Substances, Academy of Sciences of the UzbekSSR (Institut khimii rastitel'

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

Alkaloids of the Haplophyllum Foliosum 77414
Vived. Structure of Dubinidine 50V/79-30-1-75/78

nykh veshchestv Akademii nauk Uzbekskoy SSR)

SUEMITTED: October 29, 1958

Card 8/8

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120020-7

5.3610, 5.3900

77918 SOV/79-39-2-69/78

AUTHORS:

Yunusov, S. Yu. Akramov, S. T.

TITLE:

Investigation of Alkaloids of Lollum Cuncatum.

Communication II.

PERIODICAL:

Zhurnal obshchey khimil, 1960, Vol 30, Nr 2,

pp 677-682 (USSR)

ABSTRACT:

The authors reported previously (this j., 1955. Vol 25, p 1813) the separation of 3 new alkaloids from the seeds of Lolium cuneatum Nevski (fam. Gramineae), which they named Iolinidin (I), lolin

(II), and lolinin (III).

 $C_7H_{10}O(>N-)\left(-N{\begin{pmatrix} GH_3\\ H\end{pmatrix}}\right) C_7H_{10}O(>N-)\left(-N{\begin{pmatrix} GH_3\\ COGH_3\end{pmatrix}}\right)$

Card 1/5

It was also established (Izv. AN UZSSR, ser. khim., 1957, Vol 2, p 69) that dichloroethane condenses readily with alkaloids containing primary and

Investigation of Alkaloids of Lolium Cuneatum. Communication II.

secondary nitrogen atoms in the molecule, and that it forms type (IV) or (V) compounds. Dichlorocthance can form also type (VI) or (VII) compounds on condensation with strong tertiary bases.

The yield of IV-VII depends on the time and temperature of the reaction. Iolin II was condensed with chloroethane and gave crystalline compounds of IV or VI structure (yield 65%; mp 135-136°C) named by the authors lolinchloroethane. Taking into account the above properties of dichloroethane, the authors extracted

Card 2/5

$$\begin{array}{c|c}
CH_2-CH_2-CI \\
-N \\
CI \\
CI \\
(VII)
\end{array}$$

Investigation of Alkaloids of Lollum Cuneatum. Communication II.

77918 867/79-30-2-05/75

Lolium cuneatum seeds with chloroform; the extract, after separation of substances soluble and insoluble in acctone, gave, on treatment with a methanolic tion of HCl and a methanolic solution of sodium perchlorate, a new alkaloid named norlolin (VIII), obtained in the form of its diperchlorate. Free norloline had a bp 94-95° C at 2 mm; d²⁰ 1.1793; n_D 1.5220; on standing, it absorbed CO₂ from air and gave a crystalline carbonate (mp.141° C).

$$(VIII)$$
 $(VIII)$ $(VIII)$

It was shown that VIII is identical with the product of exidation of Tolin with ${\rm KMnO}_{\rm p}$ in an acid medium, and that it gives easily dinitrates, dihydrochlorides and diplorates. Acetylation of VIII gave N-diacetylnorlolin (IX) bp 190-195 C at 2 mm), a glass-like, noncrystallizable substance, which on heating with

Card 3/5

Investigation of Alkaloids of Lolium Cuneatum. Communication II.

77918 80**V/**79-30-2-69/78

30% sulfuric acid gave again VIII. Diazotization of VIII gave a crystalline amino alcohol (X; mp 192° C), named by the authors heminorlolin, which gave readily the corresponding hydrochloride, bromohydrate, and plorate.

 $C_7H_{10}O(>N-)\left(-N < \frac{COCH_3}{COCH_3}\right)$

 $C_7II_{10}O(>N-)(OII)$

(X)

Methylation of VIII with formaldehyde and formic acid in 1:2:2 molar ratio gave N-methyllolin (XIV), which with ${\rm KMnO}_4$ and sulfuric acid (2 g-atoms

O), was exidized to II; similar exidation in acctone (6 g-atoms O) gave VIII.

 $C_7H_{10}O(>N-)\Big(-N < \frac{CH_3}{CH_3}\Big).$

(XIV

dard 475

Investigation of Alkaloids of Lolium

Cuneatum. Communication II.

SOV/79-30-2-69/78

Lolin II was oxidized to VIII with KMnO_{4} in sulfuric

acid. There are 7 Soviet references.

ASSOCIATION:

Chemical Institute for Plant Substances, Academy of Sciences of the Uzbek SSR (Institut khimii rastitel nykh

veshchestv Akademii nauk Uzbekskoy SSR)

SUBMITTED:

February 25, 1959

Card 5/5

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963120020-7

建设,在1000年间,1900年间,1900年间,1900年间,1900年间,1900年间,1900年间,1900年间,1900年间,1900年间,1900年 5.3610,5.3900 77919 SOV/79-30-2-70/78 AUTHORS: Yunusov, S. Yu., Akramov, S. T. TITLE: Investigation of Alkaloids of Lolium Cuneatum. cation III PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 683-689 (USSR) Norlolin (I), lolin (II), and lolinin (III) have a common heterocyclic ring; this has been demonstrated in the preceding study by the mutual conversion of one of the above alkaloids into another (our abstract 77918). ABSTRACT: (11) (III)Card 1/3

Investigation of Alkaloids of Lolium Cuneatum. Communication III

77919 **SOV/79-30-**2-70/78

Lolin on heating with 15% HCl in sealed ampoules at $130-140^{\circ}$ C gave hydroxychlorololin (IV; mp $105-106^{\circ}$ C from acetone; [α] $_{D}^{16}$ -74.49).

$$C_7H_{10}\left(-N\zeta\right)\left(-N\zeta_H^{CH_3}\right)$$
 (OH) (CI) (IV)

It was established that the properties of I-III coincide closely with the properties of pyrrolizidine (XII):

Card 2/3

Investigation of Alkaloids of Lollum Cuneatum. Communication III

77919 80**V/79-**30**-**2-70/78

Hence, the above 3 alkaloids are derivatives of XII and can be represented by the formulas:

where R is the radical obtained by subtracting 3 hydrogen atoms from the XII molecule. There are 5 references, 1 U.S., 4 Soviet. The U.S. reference is: N. G. Brink, F. A. Kuehl, Jr., E. H. Flunn, J. Am. Chem. Soc., 68, 2557 (1946).

ASSOCIATION:

Chemical Institute for Plant Substances, Academy of Sciences of Uzbek SSR (Institut khimii rastitel'nykh veshchestv Akademii nauk Uzbekskoy SSR)

SUBMITTED:

March 16, 1959

Card 3/3

YUNUSOV, S.Yn.; ISPAILOV, Z.F.

Alkaloids of Thalictrum minus L. Part 3: Structure of thalmins. Zhur.ob.khim. 30 no.5:1721-1727 My '60.

(MIRA 13:5)

1. Institut khimii rastitel'nykh voshchestv Akademii nauk:
Uzbekskoy SSR.

(Alkaloids)

YUNUSOV, S.Yn.; AKRAMOV, S.T.

Structure of norloline, loline, and lolinine. Part 4. Zhur. ob. khim. 39 no.9:3132-3137 S '60. (MIRA 13:9)

1] Institut khimii rastitel'nykh veshchestv Akademii nauk Uzbekskoy SSR.

(Loline) (Lolinine) (Horloline)

ABDUSAMATOV, A.; ABDUAZIMOV, Kh.A.; YUNUSOV, S.Yu.

Alkaloids from Ungernia victoris WED. Uzb.khim.zhur. 6 no.1:45-55 '62. (MIRA 15:3)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. (Alkaloids)

SIDYAKIN, G. P., BESSONOVA, I. A., PASTUKHOVA, V. I., YUMUSOV, S. Yu.

Alkaloids Haplophyllum. Part 3: Structure of dubinidine and dubamine. Zmur. ob. khim. 32 no.12:4091-4096 D '62. (MIRA 16:1)

1. Institut khimii rastitel nykh veshchestv AN Uzbekskoy SSR.

(Alkaloids) (Dubinidins)

YULDASHEV, P.A.; YUNUSOV, S.Yu.

Structure of vincanine. Uzb,khim,zhur. 7 no.1:44-49 '63.

(MIRA 16:4)

1. Institut rastitel'nykh veshchestv AN UZSSR.

(Vincanine)

UBAYEV, Kh.; YULDASHEV, P.Kh.; YURUSOV, S.Yu.

Study of alkaloids of Pedicularis olgae RGL. Uzb.khim.zhur. 7 no.3:
33-36-163. (MIRA 16:9)

LInstitut khimii rastitel'nykh veshchesty AN UzSSR.

(Figwort) (Alkaloids)

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29.47

FAKHRUTDINOVA, I.M.; SIDYAKIN, G.P.; YUNUSOV, S.Yu.

Alkaloids from Haplophyllum folosium. Haplopholin. Uzb. khim. zhur. 7 no.4:41-43 '63. (MIRA 16:10)

1. Institut khimii rastitel nykh veshchestv AN UzSSR.

ABDUSAMATOV, A.; ABUDAZIMOV, Kh.A.; YUNUSOV, S.Yu., akademik

Alkaloids from Ungernia tadshicorum Vved. and artificial alkaloids
from Ungernia victoris Vved. Dokl. AN Uz. SSR 20 no.1:18-21 '63.

(MIRA 16:6)

1. Institut khimii rastitel'nykh veshchestv AN Uzbekskoy SSR.

2. AN Uzbekskoy SSR (for Yunusov).

(Alkaloids) (Ungernia)

ABDUAZIMOV, Kh.A.; YUNUSOV, S.Yu.

Structure of ungerine. Dokl. AH SSSR 153 no.6:1315-1317
D *163. (MIRA 17:1)

1. Institut khimit rastitel*nykh veshchestv AN U2SSR.
2. Ghlen-korrespondent AN SSSR (for Yunusov).

ALLAYAROV, Kh.; ABDUAZIMOV, Kh.A.; YUNUSOV, S.Yu.

Alkaloids of Ungernia trisphasra BCE. Uzb.khin.zhur. 8 no.2:
(MIRA 17:5)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR.

HESSONOVA, I.A.; SIDYAKIN, G.P.; YUNUSOV, S.Yu.

Alkaloids of Haplophyllum dubium. Structure of dubinine. Zhur.ob.
khim. 34 no.1:347-351 Ja '64. (MIRA 17:3)

1. Institut khimii rastitel'nykh veshchestv AN UESSR.

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SMIRNOVA, L.S.; ABDUAZIMOV, Kh.A.; YUNUSOV, S.Yu.

Alkaloids of Ungernia severtzovii. Structure of unsevine. Dokl.
AN SSSR 154 no.1:171-173 Ja'64. (MIRA 17:2)

1. Institut khimit rastitel nykh veshehestv AN UzSSR. Chlenkorrespondent AN SSSR (for Yunusov).

YULDASHEV, P.Kh.; YUNUSOV, S.Yu.

Vincarine, a new alkaloid from the roots of Vinca erecta RGL. et Schmalh.

Dokl. AN SSSR 154 no.6:1412-1413 F '64. (MIRA 17:2)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. Chlen-korrespondent AN SSSR (for Yunusov).

MAYEKE, S.Kh.; YUNUSOV, S.Yu., akademik

Alkaloids of Thalictrum simplex L.; structure of talsimin.
Dokl. AN U2.SSR 21 no.9:27-29 '64. (MIRA 19:1)

1. Institut khimii rastitel'nykh veshchesty AN U2SSR.
2. Akademiya nauk U2SSR (for Yunusov).

And any deal of the country of the management of the second of the secon
Alkaloids of Ungernia severtzovii(Rga.) B. Fed. Khim. prirod. seed. no.5:322-328. '65. (MIRA. 18:12)
1. Institut khimii rastitel'nykh veshohestv AN UESSR. Submitted April 5, 1965.

LUTPULLIN, K.L., YULDASHEY, P.Kh., YURUSOV, S.Yu.

Study of the alkaloids of Pedicularis olgan. Structure of plantagonin and indicain. Khim, prirod. sond. no.5:365-366 '65.
(MIRA 18:12)

1. Institut khimil rastitel'nykh veshchesty AN UzSSR. Submitted August 6, 1965.

KUCHENKOVA, M.A.; YULDASHEV, P.Kb.; YUNUSOV, S.Yu.

Vinervine, a new alkaloid from the above-ground part of Vinca erecta RGL et Schmalh. Izv. AN SSSR. Ser. khim. no.12:2152-2155 165. (MIRA 18:12)

1. Institut khimil ras'itel'nykh veshchestv AN UzSSR. Submitted July 29, 1963.

SHAKIROV, R.; NURIDDINOV, R.N.; YUNUSOV, S.Yu.

Synthesis of "edpetilin." Dokl. AN SSSR 161 no.3:620-621 Mr '65.
(MIRA 18:4)

1. Institut khimii rastitel'nykh veshchestv AN Uzbekskoy SSR.
2. Ghlen-korrespondent AN SSSR (for Yunusov).

CIA-RDP86-00513R001963120020-7 "APPROVED FOR RELEASE: 03/15/2001

TELEZHENETSKAYA, M.V.; YUNUSOV, S.Yu.

Structure of thalmine and thalmidine. Dokl. AN SSSR 162 no.2: (MIRA 18:5)

354-355 My 165.

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. Chlenkorrespondent AN SSSR (for Yunusov).

YUNUSOV, S.Tu.; MNATSAKANYAN, V.A.; AKRAMOV, S.T.

Alkaloids of some species of Papaver and Roemeria and the structure of fugapavin. Izv. AN SSSR. Ser. khim. no.3:502-509 '65. (MIRA 18:5)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR,

YUNUSOV, M.S.; AKRAMOV, S.T.; YUNUSOV, S.Yu.

Alkaloiis of Corydalis gortschakivi and Corydalis pseudoadunga.

Dokl. AN SSSR 162 no.3:607-609 My '65. (MIPA 18:5)

1. Institut khimii rastitel'nykh veshchestv AN U2SSR. 2. Chlenkorrespondent AN SSSR (for S.Yu.Yunusov).

Alkaloids of	Patilium Fduardi (A.Rgi)Vved. Tab.knim.in.i
l. Institut	Enterty to registed tracks we encourage to the enterty of

Stidy of alkaloids of the overground part
Dokl. AN SSSR 162 no.1:102-105 My '65.

1. Institut khimii rastitel'nykh vestmestv AN Trasp. 3. Orleant
respondent AN SSSR (for Yunusov).

YULDASHEV, P.Kh.; YJNUSOV, S.Yu.

Structure of vincarine, Dokl. AN SSSR 163 no.1:123-124 Jl 165.

(MIRA 18:7)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. Chlen-korrespondent AN SSSR (for Yunusov).